

CLAIMS

What is claimed is:

1. ~~A portable communication system comprising:~~
a wireless transceiver;
a display unit having a housing, a liquid crystal display carried by the housing, and a lens that magnifies an image on the display; and
a datalink extending between the transceiver and the display unit.
2. ~~The portable communication system of claim 1 further comprising a memory card reader within the housing of the display unit that receives input to be displayed on the display from a memory card that docks with the card reader.~~
3. ~~The portable communication system of claim 1 further comprising a smart card reader within the housing of the display unit that receives input to be displayed on the display from a smart card that docks with the card reader.~~
4. ~~The portable communication system of claim 1 wherein the liquid crystal display is color sequential.~~
5. ~~The system of claim 2 wherein the display comprises:~~
an active matrix liquid crystal display including an array of at least 75,000 pixel electrodes, the array of pixel electrodes having an active area of less than 158 mm²; and
a light emitting diode device that illuminates the array of pixel electrodes.

6. The system of claim 5 wherein the array of pixel electrodes comprises an array of at least 320 x 240.
7. The system of claim 5 wherein the array of pixel electrodes comprises an array of at least 640 x 480.
- 5 8. The system of claim 5 wherein the active matrix liquid crystal display further comprises an array of transistor circuits formed with single crystal silicon, the array of transistor circuits being bonded to an optically transmissive substrate with an adhesive layer.
- 10 9. The system of claim 1 wherein the housing of the display unit has a volume of less than 250 cm³.
10. The system of claim 9 wherein the housing of the display unit has a volume of less than 165 cm³.
- 15 11. The system of claim 1 wherein the datalink is a wired connection.
12. The system of claim 1 wherein the datalink is a wireless connection.
13. The system of claim 12 wherein the wireless connection is infrared.
- 20 14. A portable display system comprising:
a housing having a volume of less than 330 cm³;
a liquid crystal display carried by the housing;
a lens that magnifies an image on the display;
and
a card reader operating at least at 15 MHz within the housing that receives video input to be displayed

09065061-04498

Sub
G1
cont.
25

15. The portable display system of claim 14 wherein the audio transducer device is an acoustic speaker carried by the housing.

10 a light emitting diode device that illuminates
the array of pixel electrodes.

18. The system of claim 14 further comprising an audio transducer device carried by the housing that generates an audio sound.

20. The method of claim 19 wherein the liquid crystal is driven black and the pixel electrodes are initialized to a clear state.

21. The method of claim 19 further comprising the steps of
repeating the setting, rotating, flashing and
driving for each color subframe of the image; and
sensing the properties of the liquid crystal; and
5 heating the liquid crystal between frames when
required.
22. The method of claim 19 further comprising the step of
repeating the setting, rotating, flashing and
driving for each color subframe of the image at a rate
10 of over 165 subframes per second.
23. The method of claim 20 further comprising the steps of
repeating the setting, rotating, flashing and
driving for each color subframe of the image at a rate
15 of over 165 subframes per second; and
sensing the properties of the liquid crystal; and
heating the liquid crystal between frames when
required.
24. The method of claim 23 further comprising the steps
of:
20 providing a portable display system having a
housing carrying the liquid crystal display; and
operating at least at 15 MHz a memory card reader
located within the housing for displaying video on the
display from a memory card that docks with the card
25 reader.

854240-19099060

Sub
B2add
B3ADD
D4add
F11